Hygrophorus whitei WA iNat 18787257
Hygrophorus fuscoalboides WA (1/3 CAN) dry stem RHM-16-5
MT981636.1 Hygrophorus fuscoalboides TYPE ID (very short)
H. fuscoalboides official (korhonenii 4/2) Boreal BC FJ845410 (as olivaceoalbus)
Hygrophorus fuscoalboides ID iNat108596791
MN243159 Hygrophorus fuscoalboides CAN
MT981607.1 H. olivaceoalbus var. intermedius TYPE CO (=fuscoalboides)
MN243160 Hygrophorus fuscoalboides MI (matches short type ID)
MN243183.1 Hygrophorus whitei TYPE CA
MT981639 Hygrophorus whitei CA NS3601 iNat19938983
MT981641.1 Hygrophorus korhonenii TYPE Fin
H. korhonenii (UNITE+gb 1) UDB036159
H. korhonenii UNITE EU 2 UDB000567 (0/3+)
H. fuscoalbus Fr sensu Bon QC (+France) MG882091 (nom dub)
Hygrophorus olivaceoalbus SWE Unite +gb majority UDB000558
MT981627.1 Hygrophorus olivaceoalbus (official as megasporus) CA
H. olivaceoalbus (official 1/2) W Vanc Isl UDB034803 Sitka spruce (only ex-EU seq)
MN243170.1 Hygrophorus olivaceoalbus TYPE SWE (ITS can vary in official concept)
H. olivaceoalbus W Vanc Isl Marty very wet Sitka spruce (0/0-1 UDB034803)
Hygrophorus cf sordidus USA (type E NA) EF395373
Hygrophorus penarioides UNITE EU consensus UDB001759
Hygrophorus russula SWE UNITE (1/many) UDB000560
H. russula UNITE EU (2nd major clade)
MH160770.1 Hygrophorus parvirussula HOLOTYPE China
Hygrophorus parvirussula PNW11 WA iNat128645037 (0/13 most in ITS2)
Hygrophorus parvirussula PNW11 WA iNat98171874 (0/0 128645037)
Hygrophorus subalpinus PNW03 WA iNat 34667358 Fall
SVMFA086 Hygrophorus subalpinus PNW03 N.AB Fall
Hygrophorus subalpinus PNW03 Boreal PQ Sept JN021041
Hygrophorus subalpinus WA iNat79234434 (not 79234919) spring
MK737041 Hygrophorus subalpinus CA iNat66259403 (type WA) spring
MK290388.1 Hygrophorus subalpinus (Dec) JLF6133 OR iNat66266205 Dec.
Hygrophorus subalpinus OR (3/0 CA) iNat 35175709 (Oct)
MK737042.1 Hygrophorus subalpinus JLF5958 OR iNat79819209 Nov.
Hygrophorus subalpinus WA iNat98163125 (fall)
Hygrophorus neoerubescens (UNITE EU majority erubescens which is a Rhodocollybia) UDB011496
Hygrophorus neoerubescens NBC UDB024074 (matches type IT)
OK058465.1 Hygrophorus neoerubescens official AZ MO 428583
Hygrophorus pudorinus 1836 (=persicolor 1977 type is secret) UNITE EUx6 UDB023545
MT483602 Hygrophorus pudorinus AZ MO 245949 (=newer fragicolor)
Hygrophorus pudorinus (aff neoerubescens 5) WA iNat94662230
Hygrophorus pudorinus Pt. Renfrew BC UDB033226
Hygrophorus vernalis KC1707 (MO 278611)
Hygrophorus vernalis BC DQ481982 (2/0-5)
Hygrophorus vernalis WA (type WA) iNat164576755
Hygrophorus pusillus Vanc BC Mary
Hygrophorus pusillus WA iNat104000130 OP941375
Hygrophorus pusillus WA iNat101156380
Hygrophorus pusillus WA Pablo 1599312 C11 C7+34412
Hygrophorus pusillus WA iNat 34941284 (type ID)
Hygrohporus pusillus SSound WA iNat35997525 (LSU matches ENA cf LSU)
Hygrophorus pusillus WA iNat99878938
Hygrophorus purpurascens UNITE EU consensus UDB000576
MK991851 Hygrophorus purpurascens PNW05 Spring OR iNat60028405
Hygrophorus purpurascens PNW04 Fall OR (iNat 17488245)
Hygrophorus purpurascens PNW04 Fall NAMA 2018 OR MP6598768
Hygrophorus purpurascens PNW04 Fall WA NAMA 2014 (MP 3955158)
Hygrophorus purpurascens PNW04 Fall WA iNat96552630
Hygrophorus purpurascens PNW04 Fall WA iNat 34443431 Fall
Hygrophorus purpurascens PNW04 Fall (=velatus ID) (=Boreal BC HQ650731)
Hygrophorus purpurascens PNW04 Fall CA iNat170775607
Hygrophorus eburneus UNITE 2 SWE UDB000555
Hygrophorus eburneus UNITE 1 EU AY463485
MH656479 Hygrophorus occidentalis TN ISOTYPE (of CA TYPE)
Hygrophorus aff. eburneus ENV OR JQ393064
Hygrophorus cf chrysaspis IN (type EU) MK575247
Hygrophorus cossus UNITE EU consensus AY463487 (3 type)
Hygrophorus cossus TYPE UK UDB000552
Hygrophorus eburneus PNW01 OR MP6598774
Hygrophorus eburneus PNW01 WA iNat140950608
Hygrophorus eburneus PNW01 CA iNat71076903
Hygrophorus eburneus PNW01 WA MP3955141
Hygrophorus eburneus PNW01 WA iNat99843671
Hygrophorus bakerensis WA iNat 34607376 (short isotype HQ179686 is 0/1/17)
MF399452.1 Hygrophorus amarus TYPE WA (0/0/2/2n bakerensis)
HQ179686 Hygrophorus bakerensis ISOTYPE WA (short dirty ITS2)
Hygrophorus bakerensis N Vanc Isl. (type WA) (+WA MP 3955136) JF899556
Hygrophorus bakerensis WA 0/1 iNat 34445558
OQ740673.1 Hygrophorus aurorae HOLOTYPE PQ
MF399443.1 Hygrophorus aurorae WY
MF399458.1 Hygrophorus abieticola TYPE EU
Hygrophorus aurorae CO (+ENA) DQ490631 (no EU avail)
Hygrophorus fragrans WA NAMA 2014 MP3955156
FJ845408.1 Hygrophorus fragrans NBC (8/2 but officially same species)
MF399440.1 Hygrophorus fragrans AZ (8/2 but same species)
Hygrophorus fragrans WA iNat102565007
KX017225.1 Hygrophorus fragrans CA MO 230513
MF399456.1 Hygrophorus fragrans (was pudorinus var.) TYPE OR (MO230513 is this)
MF399453 Hygrophorus fragrans CA (=f. pallidus TYPE Trinidad)
Hygrophorus fragrans NAx8 (overwh) incl. Victoria BC
MF399447.1 Hygrophorus fragrans OR
MF399446.1 Hygrophorus fragrans OR
MT981695 H. mesotephrus TYPE UK (=olivaceoalbus var. gracilis)
MT981617.1 Hygrophorus cf megasporus OR Smith MICH34186 (type WA)
H. persoonii UNITE EU unanimous JF908067
MT981658.1 Hygrophorus pustulatoides TYPE PQ
MT981675.1 Hygrophorus pustulatoides WA MO111246
Hygrophorus pustulatoides Boreal BC FJ845412
MN243179.1 Hygrophorus pustulatoides OR
KJ720197.1 Hygrophorus tephroleucus TYPE Slov (pustulatus is older)
MN243180.1 Hygrophorus pustulatus TYPE SWE (=TYPE H. tephroleucus)
Hygrophorus pustulatus EU (+AK) UNITE majority UDB000577
Hygrophorus morrisii official Bellanger QC (type E NA) KM248869
Hygrophorus odoratus WA (MP 3955135)
Hygrophorus odoratus TYPE OR HQ185705
Hygrophorus odoratus WA iNat99272403 (short) (+very short)
MH939180.1 Hygrophorus suaveolens TYPE SWE (+AK)
NR 173948 Hygrophorus hyacinthinus TYPE EU
MT981691.1 Hygrophorus albofloccosus TYPE CA
MK737043 Hygrophorus albofloccosus OR JLF6110 iNat 66262572
Hygrophorus albofloccosus WA iNat 34739615
JQ393065 Hygrophorus albofloccosus Uncultured OR
Hygrophorus albofloccosus Victoria BC Marty UDB024844
MT981674.1 Hygrophorus agathosmoides OR MO85401
MH656445 Hygrophorus agathosmus TYPE SWE
Hygrophorus agathosmus EU UNITE 2 (2/7+ agathosmoides) KJ720194
Hygrophorus agathosmoides WA iNat65450067
Hygrophorus agathosmoides (soil BC) FJ553633
Hygrophorus agathosmoides WA iNat101113903
Hygrophorus agathosmoides UDB024033 Boreal BC
MT981656.1 Hygrophorus agathosmoides TYPE PQ (=1/5 agathosmus)
Hygrophorus agathosmoides MI (as fuscoalbus 1124/44793 in H S) MG882103
Hygrophorus agathosmoides WA iNat65800836
Hygrophorus agathosmoides WA iNat 34444337 (0/1/3)
Hygrophorus agathosmoides WA iNat66636799
Hygrophorus discoideus 2 UNITE EU UDB037574
Hygrophorus discoideus PNW13 WA iNat143452044 5/4
Hygrophorus discoideus UNITE EU UDB017881
Hygrophorus discoideus UNITE EU UDB011700
Hygrophorus discoideus UNITE EU UDB018215
Hygrophorus discoideus UNITE EU UDB015773
Hygrophorus discoideus UNITE EU UDB034600
Hygrophorus discoideus UNITE majority EU UDB015804
Hygrophorus discoideus 3 UNITE EU UDB037949
Hygrophorus cf capreolarius IT (GBx6) type locale JF908074
KM248872 Hygrophorus capreolarius PNW06 sensu PQ
Hygrophorus capreolarius PNW06 6 WA iNat 34941321
Hygrophorus piceae PNW07 BC UNITE EUx3+NAx2 JF899557
Hygrophorus piceae PNW07 WA iNat 34607140
Hygrophorus piceae PNW07 WA iNat100698463
Hygrophorus piceae UNITE EUx1 2 UDB037924
Hygrophorus chrysodon PNW09 WA (MP 3955140)
Hygrophorus chrysodon PNW09 WA iNat 34449146
Hygrophorus chrysodon CA01 OR iNat147507729
Hygrophorus aff. chrysodon CA 3 DQ974809
Hygrophorus chrysodon UNITE EU consensus UDB000562
Hygrophorus cf calophyllus EWA iNat21197907
KM403031 Uncultured Hygrophorus cf calophyllus SWBC
Hygrophorus camarophyllus UNITE majority EU Vanc. Isl. EU597040
KP406544 Hygrophorus camarophyllus S BC
Hygrophorus camarophyllus UNITE 2 SWE UDB000561
Hygrophorus piceae UNITE EUx1 4 UDB037443
FJ943242 Hygrophorus piceae PNW08 BC F15697
Hygrophorus piceae PNW08 WA iNat 34443466
FJ627029 Hygrophorus piceae PNW08 Mary BC
Hygrophorus piceae PNW08 WA (MP 3955152)
Hygrophorus piceae PNW08 UNITE EUx1 3 UDB036510
FJ845411 Hygrophorus piceae PNW08 NBC
Hygrophorus inocybiformis EWA (type area) iNat21196813 (type ID)
Hygrophorus inocybiformis EU UNITE consensus (6/0 WA)
Hygrophorus penarius UNITE EU consensus EF395369
HQ185700 Hygrophorus erubescens var gracilis ISOTYPE OR (ITS2 only)
KF879503 Uncultured H. erubescens var gracilis CA
Hygrophorus speciosus Peck UNITE consensus (NA+EU) JF908063
Hygrophorus speciosus var. kauffmanii TYPE MI (3/1) MG882104
iNat34495348 H. speciosus var kauffmanii 1/0 (2/1 var sp) SSound WA
Hygrophorus speciosus WA iNat 34941734 (0/0 SSound)
Hygrophorus gliocyclus PNW12 Kelowna BC 7/0
MK290385.1 Hygrophorus gliocyclus PNW12 SOR iNat147713388
MN498121.1 Hygrophorus cf gliocyclus AZ iNat32087400
Hygrophorus gliocyclus UNITE majority EU UDB000581
Hygrophorus flavodiscus E NA (type locale) DQ249276 (+iNat34796347)
MT636971 H. siccipes clade 3 iNat36515847 WA (2/1 ITS1 3 chunks ITS2)
iNat65988821 WA Hygrophorus siccipes clade 3
Hygrophorus siccipes TYPE OR MH087015
Hygrophorus boyeri TYPE QC (also in CA and Boreal BC) MG882094
Hygrophorus boyeri WA iNat129018021
Hygrophorus siccipes clade 2 WA iNat66451561
MG882097 Hygrophorus siccipes clade 2 (official yet 11 diffs)
Hygrophorus siccipes clade 2 WA iNat 34943613
Hygrophorus marzuolus UNITE EU consensus KR817259
Hygrophorus atramentosus CA iNat66313326 Larsson (locked SWE ref)
Hygrophorus marzuolus PNW10 OR (83 but closest) iNat24967370
MT955133 Hygrophorus monticola AK SAT-09-251-10
Hygrophorus monticola (== H. secretani UNITE consensus older name) TYPE ID HQ185704
MT955131.1 Hygrophorus monticola AK SAT-13-274-01
Hygrophorus karstenii 1887 UNITE EU (short + dirty =saxatilis OR) UDB000566
Hygrophorus saxatilis WA iNat98827870 (short 2/0 near end)
Hygrophorus karstenii 1887 UNITE EU (short 1/0 but dirty) UDB0797401
Hygrophorus saxatilis Boreal BC (short) FJ845407
Hygrophorus karstenii (=saxatilis OR) WA iNat98827870 (seq. 2)
Hygrophorus karstenii WA iNat130165025
Ampulloclitocybe avellaneialba OUTGROUP
0.050